Declaration: inventorship (only for the purposes of the designation of the United States of America) Declaration of Inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:

I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.

This declaration is directed to international application PCT/ FI2004/000064 (if furnishing declaration pursuant to Rule 26ter).

I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.

I hereby state that I have reviewed and understand the contents of the identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications", by application number, country or Member of the World Trade Organization, day, month, and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.

VIII-4-1- |Prior applications:

20030214, FI, 12 February 2003 (12.02.2003)

I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

VIII-4-1- Name (LAST, First) 1\_1 VIII-4-1- Residence: (city and either US State, if applicable, 1-2 or country) VIII-4-1- |Mailing address: 1-3 VIII-4-1- Citizenship: 1-4 VIII-4-1- Inventor's Signature: 1-5 (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent) VIII-4-1- Date: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)

SALOMAA, Ilkka

Lieto, Finland

Vesikelkantie 17 FI-21420 Lieto Finland

FI

1. 3. 04

TWEQQ\_\_\_

VIII-4-1- 2-1	Name (LAST, First)	JAAKKOLA, Petri
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VIII-4-1- 2-4	Citizenship:	FI
2-5	Inventor's Signature: (If not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the agent)	1.3.04
	(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	
VIII-4-1- 3-1	Name (LAST, First)	TURUNEN, Osmo
VIII-4-1- 3-2	Residence: (city and either US State, if applicable, or country)	Helsinki, Finland
VIII-4-1- 3-3	Mailing address:	Humikkalantie 81 F FI-00970 Helsinki Finland
VIII-4-1- 3-4	Citizenship:	FI
3-5	Inventor's Signature: (If not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of	1.3.04 Osno Turur
VIII-4-1- 3-6	the agent)  Date (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	

The specification of which a. is attached hereto

## MERCHANT & GOULD P.C.

## **United States Patent Application**

## COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: INFRARED MODULATOR FOR SPECTROMETER

application(s) listed be in the prior United Star § 112, I acknowledge t § 1.56(a) which occurr date of this application  U.S. APPLICATION N  I hereby claim the beneapplication(s) listed be	the duty to discred between the  UMBER  efit under Title	DATE OF FILING	ormation as defined in the prior application and the prior are applications. The prior are prior and the prior are applications and the prior are applications and the prior are applications.	n Title 37, d the natio	Code of Federal Regulation nal or PCT international file (patented, pending, abandoned)
application(s) listed be in the prior United Star § 112, I acknowledge t § 1.56(a) which occurr date of this application	the duty to disc red between the	close material info	ormation as defined i	n Title 37, d the natio	Code of Federal Regulation nal or PCT international file
application(s) listed be in the prior United Stat § 112, I acknowledge t § 1.56(a) which occurr	the duty to disc red between the	lose material info	ormation as defined i	n Title 37.	Code of Federal Regulation
I hereby claim the bend	low and, insofa	ar as the subject r in the manner pro	natter of each of the	claims of t	d States and PCT internation his application is not disclow Title 35, United States Code
COUNTRY	APPLICA	ATION NUMBER	DATE OF FILING (day, month, year)		DATE OF ISSUE (day, month, year)
			FILED BEFORE THE PRIO	RITY APPLIC	ATION(S)
Finland	200302		12, February, 2003		
COUNTRY	APPLICA	ATION NUMBER	DATE OF FILING (day, month, year)		DATE OF ISSUE (day, month, year)
	FOREIGN APPL	JCATION(S), IF ANY,	CLAIMING PRIORITY UN	DER 35 USC §	119
a. no such applicat b. such application	ns have been fil	led as follows:			
inventor's certificate h	aving a filing d	late before that of	te also identified belof the application on the	ow any for he basis of	eign application for patent of which priority is claimed:
I hereby claim foreign	priority benefi	ts under Title 35,	United States Code,	§ 119/365	of any foreign application(
•	any amendme	nt referred to abo		e-identifie	d specification, including th
I hereby state that I ha claims, as amended by					

I acknowledge the duty to discontinuous information that is material to the pate with Title 37, Code of Federal Regulations, § 1.56 (reprinted below):

## § 1.56 Duty to disclose information material to patentability.

- A patent by its very nature is affected with a public interest. The public interest is best served, and (a) the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
  - (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim;

or

- (2) It refutes, or is inconsistent with, a position the applicant takes in:
  - (i) Opposing an argument of unpatentability relied on by the Office, or
  - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
  - (1) Each inventor named in the application:
  - (2) Each attorney or agent who prepares or prosecutes the application; and

- (3) Every person who is substantively involved to preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby appoint the attorney(s) and/or patent agent(s) associated with the following customer number to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

23552
PATENT TRADEMARK OFFICE

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/ organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Merchant & Gould P.C. to the contrary.

I understand that the execution of this document, and the grant of a power of attorney, does not in itself establish an attorney-client relationship between the undersigned and the law firm Merchant & Gould P.C., or any of its attorneys.

Please direct all correspondence in this case to customer number 23552.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Sign	ature of Inventor 2	01:	ate:	
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	ature of Inventor 2	^^	ate:	